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TRANSMITTAL**

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First Named Inventor or Application Identifier

Scott C. Harris

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11/14/00

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Janet Christy

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

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1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages]
(including)
 - Descriptive title of the Invention
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s) (6 pgs)
 - Abstract of the Disclosure (1 pg)
3. ☒ Drawing(s) (35 USC 113) [Total Sheets]
4. ☒ Oath or Declaration [Total Pages]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d)
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[Note Box 5 below]
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in
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5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the
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part of the disclosure of the accompanying application and is hereby
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6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Copy
 - b. Paper Copy (identical to computer copy)
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☒ Applicant claims ☐ Statement filed in prior
Small Entity Status application,
Status still proper and desired
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16. ☒ Cover sheet

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ***18. CORRESPONDENCE ADDRESS**Scott C. Harris
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The filing fee has been calculated as follows:

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	21 - 20 =	1	x \$9.00	\$9
INDEPENDENT CLAIMS	4 - 3 =	1	x \$40.00	\$40
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$0
			BASIC FEE	\$355.00
			TOTAL OF ABOVE CALCULATIONS =	\$404
Assignment Recording Fee (if enclosed)				\$0.00
			TOTAL =	\$404

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Dated: 11-14-00

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APPLICATION
FOR
UNITED STATES LETTERS PATENT

TITLE: SOFTWARE SYSTEM WITH A BIOMETRIC DONGLE
FUNCTION

APPLICANT: SCOTT C. HARRIS

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SOFTWARE SYSTEM WITH A BIOMETRIC DONGLE FUNCTION

Background

Software developers invest large sums of money in
5 developing software, and regain that investment from their sales
of software. Pirating of software enables someone who has not
paid for the software to use it without paying. This can become
a huge loss of revenue for the software companies.

The ability to pirate software is aided by technology.

10 Many programs exist for copying CDs, even write protected CDs.
Other programs and Internet sites are exclusively dedicated to
finding ways to avoid any write protection or other pirate
protection which is placed on a program. For example, certain
Internet sites are dedicated exclusively to providing "crack"
15 programs for time-limited versions of software. Other sites
list authorized serial numbers for software.

Copy protection mechanisms have been used for protecting
software against unauthorized use. Many of these copy
protection mechanisms make the program harder to use by
20 authorized users, and are hence disfavored by the public. These
copy protection mechanisms often prevent even the authorized
user from adequately using their program.

Many software manufacturers use at least some kind of
security to attempt to ensure that the user of the program is in

fact authorized. High ticket programs often use a "dongle", which may be a physical connector with special encryption codes stored therein. The program cannot be used without the dongle being physically attached to the computer.

5 Other systems require a long serial number to be entered. The program checks the serial number to determine if it meets a specified checksum condition. However, since CDs are often made from molds, the CDs which are produced are often precisely the same as each other CD that is produced. Therefore, any serial
10 number that in fact correctly works on any program will work for all of the copies of the programs. Hence, as described above, the serial numbers may be improperly distributed over the Internet to thwart this security system.

Another technique has required the user to answer a
15 question which could only be answered by someone who was in possession of the owners manual for the software. For example, the "Wolfenstein" program required an answer about what was listed on a specified page of the manual. This technique was so intrusive that actual owners of the software were often
20 prevented from using the software.

U.S. Patent No. 6,035,403 suggested personalizing a copy of software using a fingerprint reader at the point of sale. However, this required that the software media itself be

personalized. This may not be easily done, especially with read only media such as CDs and DVDs.

Summary

5 The present system teaches a technique of associating software with a user's personal details, and protecting software by using the user's personal details, e.g, by using a biometric function.

10 The software is installed in a way that associates the software with specified biometric characteristics of a user. Thereafter, the software's use is limited based on those same biometric characteristics. The software can be installed in other computers based on the same biometric characteristics. However, use is limited based on the biometric characteristics.

Brief Description of the Drawings

15 These and other aspects will now be described in detail with reference to the accompanying drawings, were in:

20 Figure 1 shows a block diagram of the hardware of the present system;

 Figure 2 shows a flowchart of verifying software according to the present system;

 Figure 3 shows a flowchart of installing software according to the present system; and

Figure 4 shows a flowchart of using software according to the present system.

Detailed Description

5 The present invention realizes that software companies may base their revenue model on the number of authorized users, rather than on the number of installations. Many software programs expressly authorize the user to install the program in more than one computer so long as the user does not use those
10 multiple installations at the same time. In enterprise versions of software, a single version may be installed in multiple workstations, and the administrator may be required to determine license fees for the software. The present invention specifies individualizing each licensed software to a specified authorized
15 person. That authorized person may be allowed to use the software on one or on multiple machines.

The environment uses a hardware of the type generally shown in Figure 1. A computer 100 includes a user interface and other conventional computer parts. The computer also includes a
20 plurality of ports and interfaces. One of the ports 105 is connected to a biometric reader 110 which can read a biometric feature, which can be any biometric feature. A common biometric reader may be a fingerprint reader, and hence that example is described in this specification. The computer also includes a

removable media reader including a first removable media reader
115 which may be a CD reader, and a second removable media 120
which may be a floppy disk or other read write media reader.
The computer also runs an operating system shown as software
5 layer 125.

In operation, the system begins by installing a specified
program at 200. As part of the installation routine, the user
is asked for verification of the fact that they are an
authorized user. This may use conventional means or one of the
10 new means described herein.

A conventional way of verifying that the user is an
authorized user, requires the user to enter a series of digits
at 205, e.g, a serial number or unlock code which is verified by
the program. The verification can be based on specified
15 criterion such as whether the series of digits meets a specified
checksum.

Other alternative new ways of verifying whether the
installer is in fact authorized are also described herein. A
first way requires that the user have a bar-code scanning device
20 130 attached to an installing computer. The bar-code scanning
device may be connected to any desired port such as a USB port.
Bar-code scanning device 130 is used to scan a specified bar-
code from or associated with the packaging of the program. For
example, the bar-code may be printed on the CD itself. In this

way, the original CD which is distributed with the program may be capable of scanning by a bar-code scanner. However, any copies of that CD will not have the bar code printed thereon, and hence not be similarly capable of being scanned. Therefore, installation can only be carried out when the original CD is present for scanning the bar code at 210. Backups of the CD can be made, and those backups can be used for program installation as long as the original CD is present. If the original CD is damaged, the backup can be used, but only if the original CD is available for bar-code scanning.

Another technique displays a specified pattern such as shown in 215 on or associated with the packaging of the program. The pattern includes a series of lines, each line having a number of associated with a vertex of the line. The pattern may be written for example on the box that accompanies the CD, or on the packaging of the CD itself. A user puts the mouse over the lines and traces the lines. By following the positions on the pattern, information is entered which is matched to information stored within the program.

Only a user who has this information can trace the pattern.

Another optional technique, shown in 220, may be used by itself, or in combination with other techniques. This technique personalizes the software.

Many read only media cannot easily be made unique. For example, it is difficult to make uniquely identifiable CDs. Accordingly, this system uses all installation media, e.g., CDs, being the same, but packages the program with a separate unit
5 which is individualized. Each individualized unit becomes the identity for that specified software. The individualized unit can be a floppy disk, a memory stick™ or any other type of readable and/or writable memory, or simply a single use code. The identity may allow a single install only and may prevent
10 further installations after the first installation. If the code is on a read/write media, the code can be removed from the memory during the install, so that it cannot be used for another install. If the code is simply a number, the number is
15 registered during installation, and cannot be used for a later installation.

As described herein, this system however does not prevent other authorized installations as was the case with early copy protection software.

Many of these systems may prevent or eliminate the usual
20 technique of distributing codes over the Internet. For example, the bar-code scanning technique of 210 would require that the actual bar-code be distributed over the Internet. This may be relatively more difficult than distributing the code numbers. The vertex system of 215 may also require distributing an actual

image or instructions for following the pattern. This again is more difficult than distributing a numeric code.

The installation generally follows the techniques in the flowchart of Figure 3. There are two basic ways to install the product in this system. One is a new install, which must follow the left-hand side part of the flowchart in Figure 3 described herein. However, once the product is installed in one computer, a sync install is allowed.

The new install begins at 300, where a specified identification technique is followed, e.g., one of the ones shown in Figure 2, or any other. 310 generally determines if the system has passed or failed this technique. If there is a failure, then the system refuses to install the product much like in conventional products of this type. If the system passes at 310, then the user is prompted to enter biometric information at 320. The biometric information can be input through any reader attached to any port. This biometric information becomes the reference biometric information which will be used to determine execution of the program. The biometric information may be combined with a numeric indicia, which may be a random number, may be based on the CD code entered at 300, or the other unique code obtained at 300. This information is sent to a remote server at 330.

The example given herein assumes that the codes are unique codes. For example, each CD code which is entered at 300 is individualized to the CD and cannot be used for subsequent installation other than the single CD. Therefore, even though
5 all the CDs may be identical, each of the codes effectively makes the CD unique. Similarly, the unique code obtained from the disk is unique to the single installation. Each code may represent a single license, for example. The server determines if the code has been used previously. If so, then an
10 installation has already been carried out for that license, and at 340, the server refuses to return an authorization code. However, if the code has not been used previously, and is authorized, then the server returns an authorization code. The authorization code may be produced by the server using a one-way
15 function. One example is the use of public key cryptography. The server may use its private key to encrypt a code that includes the reference biometric and the unique code at 350. The software, in operation, includes the public key corresponding to the private key that is used at 350. Hence,
20 the software can decrypt the code and obtain the biometric information. However, neither the software, nor any other hacker who is not in possession of the private key, can produce an authorized code which includes the biometric code. Cryptographic programs which can encrypt using this kind of

encryption and can also verify whether the code is has been produced by an authorized key, are well-known.

A hacker who obtains a code from someone else will be able to use that code as an authorized code. However, as described
 5 herein, the software will not operate properly unless biometric information is entered that meets the biometric information included as part of the code.

The encrypted authorization code is included as part of an authentication layer for the software. The software uses its
 10 public key to decrypt the code each time or at specified times when the software is started. The information in the encrypted sequence is used to verify the biometrics.

The sync install at 355 allows connection to the main computer, i.e. the one that first installed the program at 360.
 15 The connection can be via a remote connection techniques such as Ethernet, LapLink, PC anywhere, direct cable connection, phone line, or any other technique of this type. Specified information is obtained from the main computer at 365. This specified information is less than the entire installation.

20 Only a relatively small amount of information needs to be transmitted over the remote connection. The specified information may include the encrypted authorization code with the biometric information. The computer may also return preference information such as recently worked-on documents, and

information about any way that the installation has been customized.

At 370, the sub computer is allowed to install a new installation based on the information received from the main computer and based on the install disk(s). That installation will use the encrypted sequence which is obtained from the main computer. The installation may also include the specified preferences from the main computer.

Note that even though a new installation is carried out in this step, this new installation will still only be allowed for use by the owner of the biometric information.

The above has described a single biometric key being an authorized key. However, it may be possible to provide multiple authorized biometric codes. Different versions of the program may be produced which are, for example, for family use. These versions of the program may allow multiple biometric items of information to be used so that the entire family can use the program.

The operation of running the program is described herein with reference to Figure 4. The user requests the program to be run at 400. There are two different ways to run the program. A normal or unrestricted run requires that the biometric information be entered, and that the entered biometric information match to the reference biometric information that is

part of the encrypted sequence. A limited run, or exception, can allow the program to run in the specified way. The specified way can be a limited run, limited amount of time of running, or limited in some other way.

5 The system first detects whether an exception is requested at 405. The exception may be allowed in specified circumstances, when the limits are detected to be ok at 407. For example, someone other than the registered user may be able to start the program under limited circumstances. One of these
10 limited circumstances may be a limited-time run. For example, the program may be allowed to be started for a half-hour run. Another limit on circumstances may be the number of times that a non authorized run can be requested in a certain time, or in a row. One example which may be preferred is that no more than
15 three in a row unauthorized starts may be allowed, and no more than two in any one 24-hour period. If the limits are detected to be OK at 407, then a run is allowed at 408.

 If no exception is requested at 405, the system next detects if a biometric reader is connected to a specified port
20 at 410. If not, the program exits, and produces a message telling the user to connect a biometric reader to the port. If a reader is connected to the port at 410, the system monitors for data at 415. Data from the port is sent to the program.

At 420, the program begins running with an initial operation of decrypting the encrypted authorization code using the public key which is contained within the program. As part of the decryption, signatures are tested to make sure that the stream is an authorized stream from the authorized provider. The output data includes specified information including the biometric information.

The biometric information from the decryption is compared against the currently-obtained information from the biometric reader connected to the port, at 425. This may use any conventional technique of comparing biometric information. For example, if the biometric information is fingerprint information, minutiae extraction may be used to monitor whether the fingerprint is authorized. If there is a match at 425, the program is allowed to run at 430. If not, the user may be allowed to run in exception mode at 435, or the user may be prompted to re-enter the biometric information.

Different modifications are possible. In one modification, the user may be prompted to enter personal information when the biometric reader fails. This personal information can be a temporary way of starting the program, for example for use in difficult situations only.

Moreover, other kinds of biometric information including face recognition, hand scanning, breath recognition, and retinal

scanning, as well as others, may be used as the identifying information.

Another modification can include time and date information as part of both or either of the decrypted authorization information, and the read biometric information. The system compares the time and date stamp with the internal clock, and allows the program to run only if the time is recent, e.g., within a few minutes. In this way, the system ensures that the information is newly-read each time the program is started, preventing the program from being started using old data, e.g., cached data.

This system can also be used with a hardware dongle, which can be a conventional dongle that connects to a port, or the special dongle described herein. Computers, e.g., PCs, PDAs and cell phones may include credit card readers. These credit card readers may be readers that read magnetic information, or may read electronic information from the credit card such as from a smart chip on the credit card or as described in our co-pending application serial number 09/690,074. According to this system, the encryption codes for the "dongle" may be written onto a credit card shaped device, and read from the card reader that is also adapted for reading credit card information. The encryption codes can be session codes only by including the current time and date as part of the code. Each run of the

program requires the encryption codes to be read from the card reader. Possession of the card therefore becomes necessary to run the program.

The system operates in a similar way to that described above with respect to Figure 4. The system detects if the credit card reader or other information reader is connected to the port, reads data from the port, decrypts certain data to detect if the data is authorized, and if so allows the program to run.

Although only a few embodiments have been disclosed in detail above, other modifications are possible. In one modification, this same technique may be used to control access to a computer. In this modification, the authorized user of the computer goes through a similar startup procedure, obtaining an encrypted sequence which is stored in the BIOS. Subsequent initiations of the computer can only be carried out when a biometric reader is connected to a port and biometric information that is entered matches the information in the encrypted sequence.

Ownership of the computer can be changed by contacting the manufacturer and obtaining new information, or by re flashing the bios.

This system can also be used in a network environment. In the network environment, a copy of the software may be placed on

the network server. Any user can install the software in any workstation on the network. However, only authorized users will be able to execute the program in anything other than an exception mode. This system may use multiple biometrics which are returned with the authorization code. Additional users can be added, by indicating to the program server that additional users are desired, paying the appropriate license fee, adding in their biometrics to the list of authorized biometrics. An update system can be used to maintain an updated list of authorized biometrics.

In this network environment, any authorized user will be able to execute the program on any computer on the network. In an alternate embodiment, only the owner of the computer will be able to execute the specific copy of the software on the users specific computer. In addition, biometrics of system administrators and the like may be added so that the system administrator can operate the software on any computer.

All such modifications are intended to be encompassed within the following claims, in which:

What is claimed is:

1 1. A method, comprising:
2 storing encrypted information associated with a computer
3 program;
4 obtaining personal information as part of a startup
5 sequence for said computer program; and
6 reading said encrypted information, decrypting information
7 contained therein to obtain decrypted information, and comparing
8 said personal information with said decrypted information; and
9 allowing said computer program to run normally only if said
10 personal information agrees with said decrypted information in a
11 specified way.

1 2. A method as in claim 1, wherein said personal
2 information is biometric information, and said comparing
3 comprises comparing said biometric information with other
4 biometric information in said encrypted information

1 3. A method as in claim 2, further comprising installing
2 said computer program by entering a biometric code, sending said
3 biometric code to a server, encrypting said biometric code at

4 said server and returning an encrypted sequence to said software
5 as said encrypted information.

1 4. A method as in claim 3, wherein said encrypting uses a
2 private key at said server, and said decrypting verifies a
3 signature of said private key.

1 5. A method as in claim 3, wherein said encrypting uses a
2 private key at said server, and said decrypting uses a public
3 key included as a part of said computer program.

1 6. A method as in claim 1, further comprising determining
2 if a biometric reader is attached to a port, and wherein said
3 program is only allowed to run if said biometric reader is
4 attached to said port.

1 7. A method as in claim 1, further comprising allowing the
2 software to run in a limited exception mode without establishing
3 that said personal information agrees with said decrypted
4 information.

1 8. A method, comprising:
2 requesting a computer system to install a specified
3 computer program;

determining whether said computer program is verified for
installation;

obtaining a reference biometric information from the
authorized user; and

thereafter allowing said program to run normally only when
biometric information is obtained which matches said reference
biometric information.

9. A method as in claim 8 wherein said determining
comprises determining if the specified license has already been
used for another installation.

10. A method as in claim 8 wherein said determining uses a
specified unique code that was distributed with the program, and
determines from a server whether said unique code has already
been used for an installation.

11. A method as in claim 8, further comprising, after
determining that said installation is authorized, sending said
reference biometric information to a server.

12. A method as in claim 11, further comprising, at the
server, encrypting said reference biometric information, and

3 returning encrypted biometric reference information which is
4 stored with said program, and which is used by said allowing.

1 13. A method as in claim 8, wherein said allowing
2 retrieves encrypted biometric information, decrypts said
3 biometric information, and allows said program to run normally
4 only if said decrypted biometric information matches a currently
5 entered biometric information.

1 14. A method as in claim 12, wherein said reference
2 biometric information is encrypted at said server using a
3 private key of a public key-private key pair, and said reference
4 biometric information is decrypted when software is to be run,
5 using said public key corresponding to said private key.

1 15. A system, comprising:
2 in a computer, run an operating system, which includes an
3 ability to run an associated program;
4 at least one port, associated with said computer, said port
5 capable of receiving at least one vertebral device thereon; and
6 a user interface, associated with said computer, receiving
7 a command to run a specified program, and operating to decrypt
8 reference biometric information associated with said specified
9 program, compare currently-obtained biometric information with

10 said reference biometric information, and allows said program to
11 run in a specified way only when said currently-obtained
12 biometric information matches said reference biometric
13 information.

1 16. A system as in claim 15, wherein said operating system
2 operates to first detect whether a biometric reading device is
3 attached to said port, and then detect whether biometric
4 information has been received from said biometric reading
5 device, said program being allowed to run in said specified way
6 only when both said biometric reading device is attached, and
7 biometric information which is received matches said reference
8 biometric information.

1 17. A system as in claim 15, wherein said operating system
2 decrypts said reference biometric information.

1 18. A system as in claim 17, wherein said operating system
2 determines a time and current biometric information is obtained,
3 and compares said time with the current time, and allows said
4 program to run in in said specified way only when said time is
5 within a specified interval of said current time.

1 19. A computer readable media, containing instructions
2 causing the computer to:
3 detect a request to run a specified program;
4 obtain current biometric information;
5 decrypt an encrypted reference information including
6 reference biometric information therein, and obtaining reference
7 biometric information therefrom;
8 compares said reference biometric information with said
9 current biometric information; and
10 allow said specified program to run into specified way only
11 when said reference biometric information matches said current
12 biometric information.

1 20. Instructions as in claim 19, wherein said compares
2 also compares a time and current biometric information was
3 obtained with a current time, and allows said specified program
4 to run in the specified way only man said time is within a
5 specified interval of said current time.

1 21. Instructions as in claim 19, wherein the specified way
2 is an unrestricted run which does not detect a number of other
3 executions or operations of said program.

ABSTRACT

A program is installed by associating the program with an encrypted item of biometric information. The biometric

5 information is encrypted using a private key on the server and associated with the program's execution file on the client.

When the program is to be run, the encrypted biometric information is decrypted to obtain reference biometric

information. That reference biometric information is compared

10 with currently-obtained biometric information to detect a match.

The program is allowed to run into specified and normal way only when the two indicia match. A limited to run may be allowed

when the biometrics do not match.

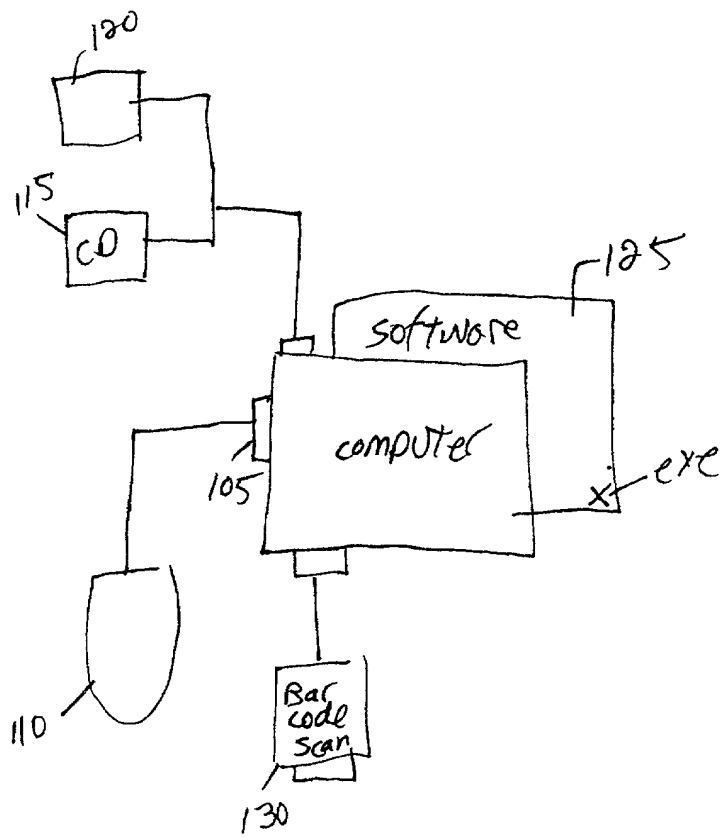


FIG 1

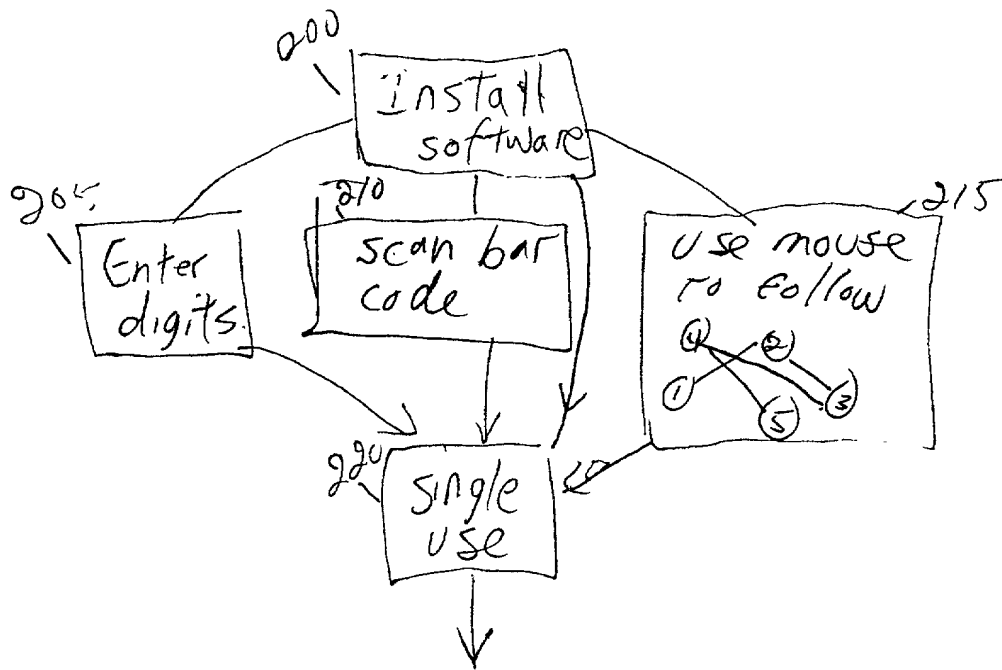


FIG 2

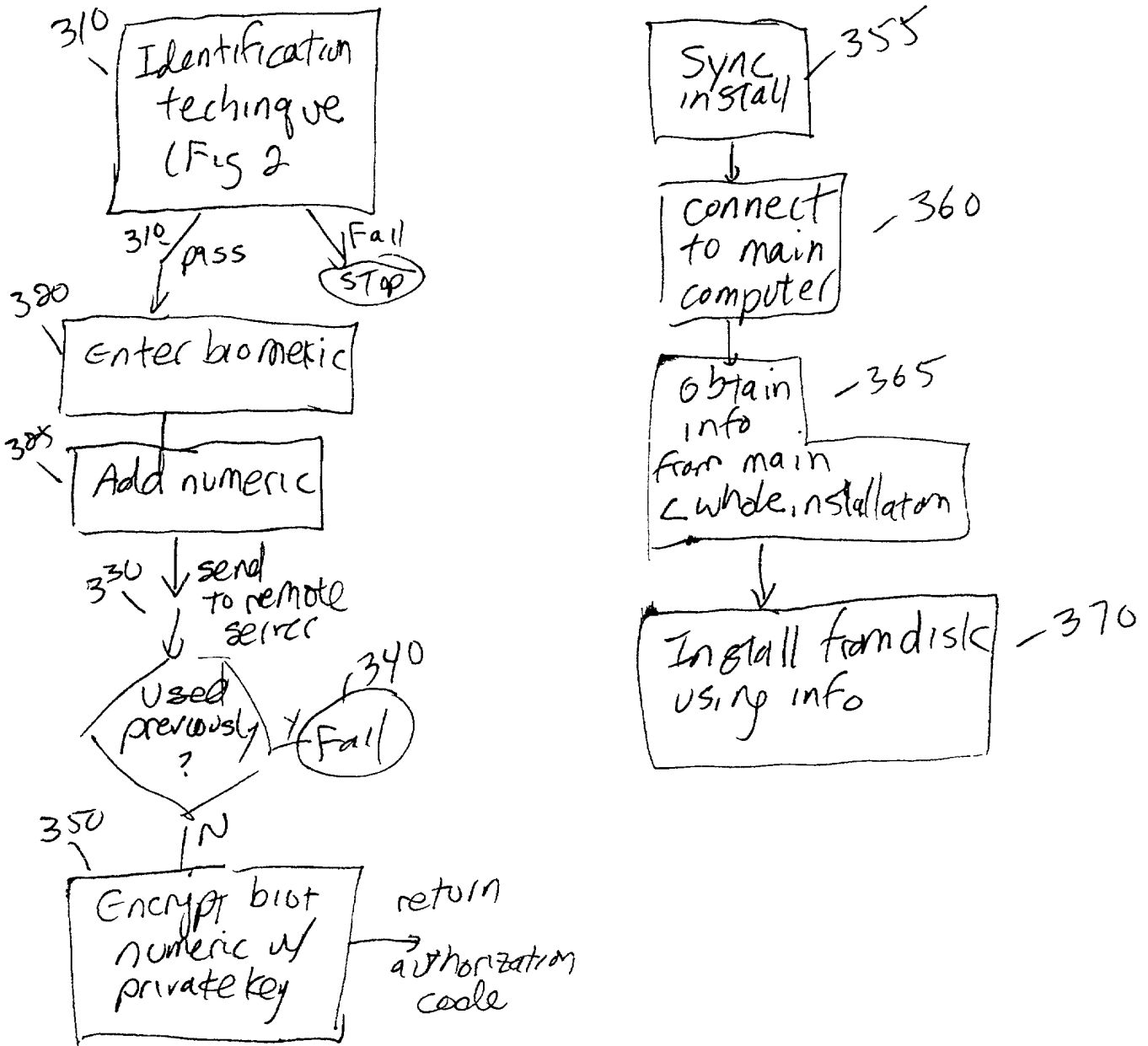


FIG 3

0074293.4400

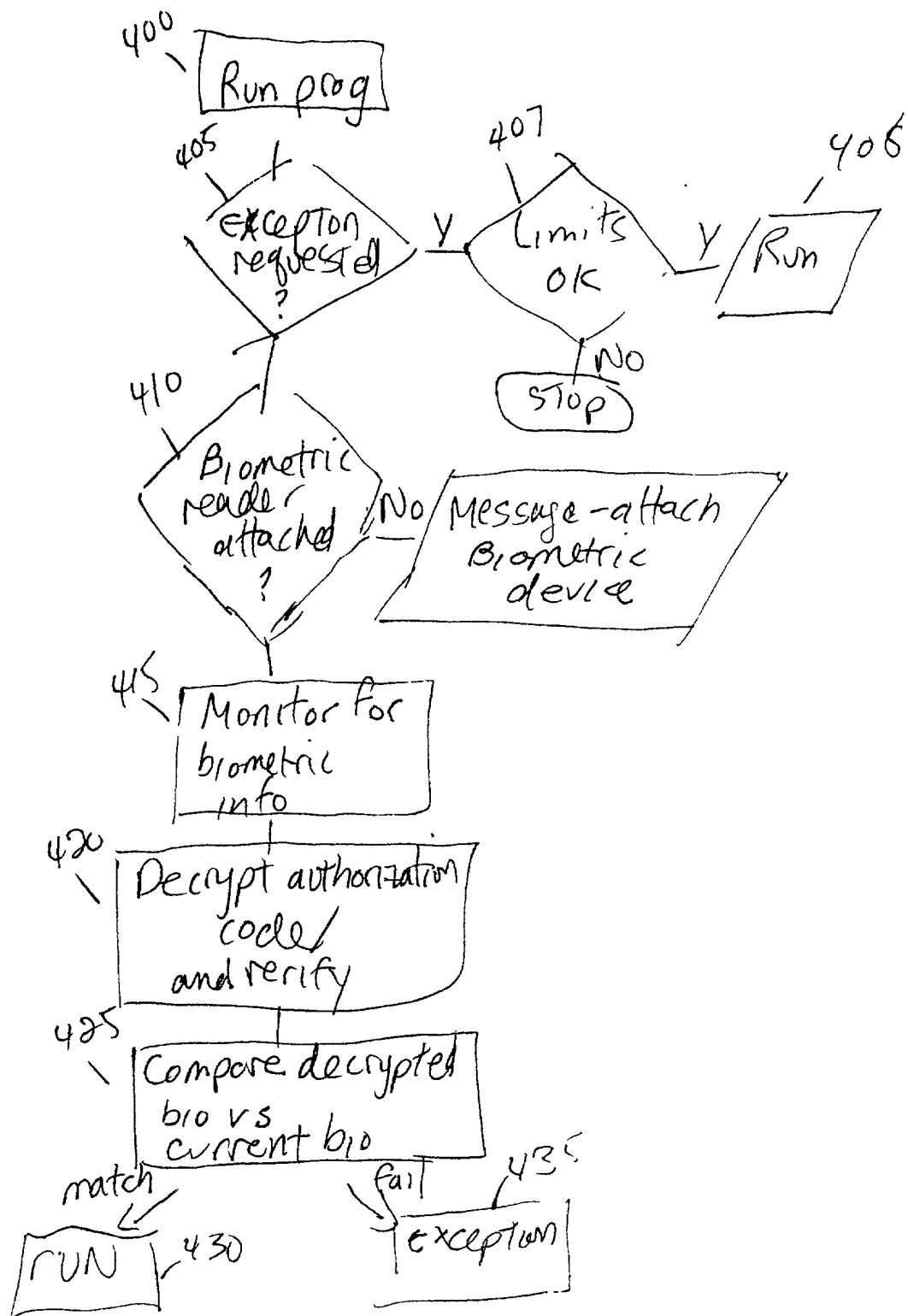


FIG 4

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled SOFTWARE SYSTEM WITH A BIOMETRIC DONGLE FUNCTION the specification of which:

- ☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____ and was amended on _____.
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. Serial No.	Filing Date	Status

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information I know to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Serial No.	Filing Date	Status

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Country	Application No.	Filing Date	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

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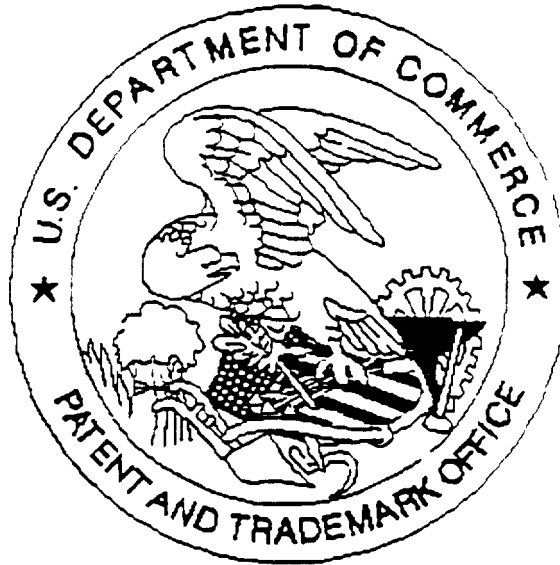
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